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Anti-Anti-Conjugated L-DOPA RABBIT POLYCLONAL

Catalog Number: AB-T020
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rabbit
Isotype: IgG
Immunogen: polyclonal and monoclonal anti-conjugated L-DOPA antibodies

Specificity and Preparation:

Anti-idiotypic antibodies are developed in order to mimic the physiological activity of biomolecules. This antibody targets dopamine receptor, polyclonal or monoclonal anti-conjugated L-DOPA antibodies. Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation.

Using an antibody, specificity was performed with an ELISA test by competition experiments with the following compounds:

COMPOUND	CROSS REACTIVITY §
Anti-conjugated L-DOPA antibody	1
Anti-conjugated dopamine antibody	1/50,000

Usage and Storage:

Applications include ELISA (1/1,000-1/2,000) and immunocytochemistry / immunohistochemistry^{4,5}(frozen sections), and functional⁶. Store the antibody at 4°C for one month or -20°C in undiluted aliquots for up to one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

Available Control(s): Polyclonal or Monoclonal Anti-Conjugated L-DOPA

References:

1. Bona CA (1984) Parallel sets and the internal image of antigen within the idiotypic network. Fed Proc 43 (10):2558-2562.
2. Pillet D, Paon M, Vorobiev II, Gabibov AG, Thomas D, Friboulet A (2002) Idiotypic network mimicry and antibody catalysis: lessons for the elicitation of efficient anti-idiotypic protease antibodies. J Immunol Methods 269(1-2):5-12.
3. Mons N, Dubourg P, Messier C, Chiavaroli C, Calas A, Geffard M (1991) Polyclonal anti-idiotypic antibodies as internal images of dopamine. Applications for biochemical and morphological studies of DA receptors in the rat brain. J Hirnforsch 32(5):617-625.
4. Vuvan T, Geffard M, Denis P, Simon A, Nguyen-Legros J (1993) Radioimmunoassay characterization and immunohistochemical localization of dopamine D2 receptors on rods in the rat retina. Brain Res 614(1-2):57-64.
5. Vanhems E, Delbos M, Geffard M, Viellemaing J (1994) Detection of putative dopamine receptors in neurites outgrowing from locust central nervous system explants using anti-idiotypic dopamine antibodies. Neuroscience 58(3):649-655.
6. Mrabet O, Messier C, Mons N, Destrade C, Geffard M (1991) Locomotor bias produced by intra-accumbens and intracaudate injection of polyclonal dopamine anti-idiotypic antibodies. J Hirnforsch 32 (5):627-633.

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